

METHOD AND APPARATUS FOR ANALYZING DIGITAL VIDEO
USING MULTI-FORMAT DISPLAY

METHOD AND APPARATUS FOR ANALYSIS OF DIGITAL VIDEO IMAGES

ABSTRACT OF THE DISCLOSURE

A multi-format display device for video production and testing **selectively** presents a video **input** signal in three or more distinct ways ~~at different areas of a display,~~ to facilitate analysis ~~of video data for discrete areas within the video picture.~~ A video processor produces a complete picture from the input signal on a limited part of the device display area, such as a quadrant of a digitally controlled standard display. At another limited part, preferably on the same display, a picture zoom is presented, showing a visual enlargement of a subpart of the picture **an area of particular scrutiny** around a cursor position, preferably large enough to point out individual pixels or data examples. A third part of the display presents a tabular form of specific pixel **information,** numeric data for one or more pixels at the cursor, and also produces a color swatch corresponding to the pixel data values **and graphic** ~~Graphic~~ plots of picture data, audio and other ~~associated~~ information can be placed in ~~remaining~~ areas **of a formatted display.** The controller and video processor are operable to accept **Predetermined or input** pixel selection criteria **can shift the display at least temporarily** ~~to identify pixels in the display that meet the criteria~~ ~~and to scrutinize the selected pixels in sequence, subject to manual selection override~~ **as the input video signal frames proceed.**